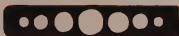




ALBERTA



NATIVE NEWS

Volume 5, Number 6

October, 1988

Calli Hoo Iroquois Attempt to Regain Land

By Everett Lambert

Callihoo - A unique case in Canadian Indian land claims is presently developing in the Edmonton Area. This Band, of originally Iroquois Indians, is pressing to have their entire reserve reinstated. Never before in Canadian Indian land claims has there been a Band which attempted to be compensated for a reserve which was lost en masse. The Michel Callihoo's Band have lost their home reserve in its entirety.

Other bands are struggling to regain the reserve land they lost, such as the Blueberry and Doig River Bands of northeastern B.C.; while the Northern Alberta band of Lubicon are attempting to get land they never received.

In a telephone interview with Alberta Native News, Rosilinde Thome, a spokesperson for the band, said "It's not just a reserve we're after, we want our culture and history back." She stated that the Michel Callihoo case points to blatant abuse of trust on the part of the federal Indian Affairs Department of the day, which amounts to cultural genocide.

Recently the descendants converged at Calahoo, approximately 60 kms west northwest of Edmonton - historic homeland of this Iroquois Band - to choose a nine (9) member Chief and Council who would over look the affairs of the band's claim. Two finalists were elected as co-chiefs: Gilbert Anderson and Robert Royer-Callihoo. The co-chief system will demonstrate the unity of the Callihoo band.

The first main argument of the band is that none of the signatories of the agreement, which allowed for expropriation of the reserve land, were ready or "fit" for enfranchisement, or entrance into mainstream society, which is what the government viewed as a main part of enfranchisement. The second argument is that the whole land transaction was rampant with corruption. Co-Chief Royer-Callihoo elaborated that none of the Indian signatories were literate: a condition of enfranchisement in 1958, when the main expropriation took place. (An enfranchisement of 10 families had also taken place in 1928.) In 1958, it was a condition of the Indian Act that Indians had to have reached a certain stage of "advancement" before being allowed enfranchisement, which allowed them to enter mainstream society. After being enfranchised they could do such things as become lawyers,

officers of the law, priests, etc. They could also vote in elections and enter drinking establishments. Royer-Callihoo argues that none of the Callihoo's knew the type of deal they were entering into. Royer-Callihoo also notes that Canada always likes to boast of its human records in the international arena. However, he adds, "human rights violations exist right here in Canada's own backyard." Referring to the band, he adds that "a flagrant abuse of human rights is taking place right here in External Affairs Minister Joe Clarke's riding." Clarke is the high profile spokesman of Canada's human rights initiatives and ideals.



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Dr. Anne Anderson — "Recording a Dream"

by Gail Duiker

The thread of Anne Anderson's colorful lineage is interwoven with the history of St. Albert. In an interview with Alberta Native News, she talks about the importance of preserving the Cree culture and how she has tried to do this. Anne reminisces of days at home when, "we spoke Cree and were taught the Slavic symbols. We were taught to be proud of our heritage." After her mother's death Anne's mother appeared to her in a vision saying, "I want my language written and recorded, otherwise we will be a forgotten people." So began Anne's quest to make her mothers dream a reality.

"I began by writing a 'Let's learn Cree' book. Then, I started to teach Cree and realized more books were needed. Having no funding, I used my wages to pay for an office. There was a need for a centre although others could not see its importance. Still, I had no time to worry about that, I was too busy writing and teaching."

Finally, funding from the Native Secretariat and the Secretary of State enabled Anne to establish a centre. The Dr. Anne Anderson Native and Cultural Centre was born. It is a non-profit corporation.

At the centre, students are taught the history and language of the Cree, including the study of spiritual beliefs and legends.

Numerous professional people have passed through the Centre's doors, gaining an understanding of the Cree culture.

More importantly, Anne is helping the Metis and Native individuals who do not know their language and culture.

A complete Cree course has been written by Anne, in the plains Cree "y" dialect. This course enables students to continue study in the Cree language from kindergarten through high school.

Anne has taught at Grant McEwan, Fairview, the University of Alberta, the Friendship Centre, The Charles Cammell hospital, the YMCA, the Fort Saskatchewan Jail, and in numerous other classrooms in Edmonton. As well, she continues teaching at her centre.

In addition, she has written eighty books that include: grammar, history, herbs, legends and a childrens coloring book. In 1985, "the First Metis... a New Nation" went on sale. This book documents the history of the Metis of Alberta. Currently, Anne is working on her autobiography.

"But Native people," she states, "must have foresight, a multi-cultural Cree heritage centre is necessary. Education is what makes the world go around."

In 1965, she was presented with an Honorary Doctorate pertaining to the preservation of the Cree language and culture by the University of Alberta.

Twenty years later, Anne comments "Presently, I have no one to take over my work.

There are some who seem willing to help but they are offered a better paying job and they leave. With me, I started this and stuck with it so some good would come of it." The Native Friendship Centre has come its share of keeping the culture alive.

On Tuesday, September 20th, Anne will be in Ottawa. The "First Nations Assembly" have invited her participation in a language conference.

"The conference, she explains, will deal with the plight of the Native languages in Alberta and more in Eastern Canada. Only some Native communities are concerned with the preserving of their culture and language by recording them. The importance of this is not stressed enough."

"My dream" says the 82 year old woman, "is that Native people should educate themselves to do for themselves. We are a people who can truly say 'we've been raised

by two cultures." But that doesn't mean to belittle oneself in any way. Maintain your cultural heritage but educate yourself. Most of all, accept who you are."

Anne has done just this. However, a move for the Native Heritage and Cultural Centre seems imminent. A leaking roof has damaged many books, some irreplaceable. Dr. Anne Anderson's Native Heritage and Cultural Centre is currently located at 12555 - 127 Street in Edmonton. (The centre will keep the same phone number, 455-9317). Undaunted by the idea of relocating, Anne says, "I had planned to retire this Year. But my health is good... So I'll continue."

If ever a nation had a dream, it would be that it's knowledge and cultural values be passed on from generation to generation. Dr. Anderson has insured that the Cree language will not be forgotten.

Heritage

Echoes in silence
ripples on the pond
Somewhere in the distance
just a little far beyond

Over yonder footprints
I see an etching there
Acting out a story
of a world somewhere

Time of an endless plane
ancestry goes with all
to extreme points of a barrier wall

Fading in the distance
stretching out afar
Losing place and dignity
by the thoughts we bar

Gregory Shayne Denman

Native Involvement in Education Policy

by Joanie Parker

The purpose of the Native Education Project established in 1984 by David King, former Minister of Education, was to seek input from the Native community in developing a Native Education Policy which would lead to a better delivery of education services to Native children attending provincial schools. The project was also set up to facilitate the development of learning resources for and about Native people.

The Native Education Project team met with Metis settlements, Indian reserves, urban education centres, Native political organizations and several other key groups to discuss with Native Albertans the policies needed to improve education. The review of Native education focused on four key questions briefly outlined as follows:

- 1 - What is the purpose of education and the role of the school for Native students?
- 2 - What should be taught in schools?
- 3 - How can education best be delivered to Native students?
- 4 - What are the roles, rights, and responsibilities of the participants in Native education: school boards, band councils, parents and so on?

On the basis of that feedback the Native Education Project team prepared a document called *Native Education in Alberta: Alberta Native People's Views on Native Education*. This was a report of the consensus of the views held by Native people in Alberta.

Mr. Merv Kowalchuk, one of the four Native Education Project team members, commenting on the project said:

"This document reflected what the Native people told us relative to these questions. To ensure that the report was not just one way and then presented to the government there must have been a dozen drafts written. Every time we had a draft we sent it out to all the key Native organizations and they reacted to it. It eventually came to the point where we weren't receiving any negative feedback. From these views we then proceeded to develop a policy which we now have, *Native Education in Alberta Schools*. The policy was passed in the legislature in March of 87.

It is a government policy seeking to improve the education of Native children but it is also a policy developed by and for Native people. Mr. Kowalchuk went on to say:

One of the things that resulted from these meetings with Native people was that they didn't want a totally separate curriculum for their children. Rather they wanted to become part of the Alberta School curriculum. We came up with a mutualistic approach where Native people were involved in the development of the curriculum. Past superintendents have said "we know what's good for Native people" but this project position is that Native people know what's good for the Native people and we're here merely to facilitate.

The second task of the Native Education project is being acted upon through Resource Development Projects. To date the Project has facilitated the development of eight learning resources which fit the grades 1 - 7 social studies curriculum. These social studies books are for and about Native people and each book has been validated by a Native group, *Sarcee Reserve: an Indian Community* validated by the Sarcee nation, *The Land of the Bloods* is validated by Blood Tribe.

Mr. Kowalchuk points out that there are other books written by anthropologists and educators that give their own point of view but these books were designed to present the Peigan point of

view or the Blood point of view and so on. All these books are entirely the Native perspective.

Other out comes of the project include a Native Awareness Package being developed by ACCESS and Native languages has also begun. The first was Cree which has been piloted in schools and will be piloted in schools again this year. The Blackfoot curriculum is also well under way and both the Cree and Blackfoot are also developing the learning resources to teach the curriculum.

There are several other outcomes of the Project and as Mr. Kowalchuk stated:

This project is really only one year old. Although we've existed since 1984 in actuality and funding came through a year ago and all other initiatives are now coming so we're young. The Project had been extended to 1990 at which time it will be reviewed. Depending on how the review comes out decisions will be made as to what happens with the Project.

Metis Only Association Approved In Saskatchewan

by Gil McGown

Alberta Native News

Members of Saskatchewan's Association of Metis and non-status Indians have decided to dismantle and reorganize their group. After much debate and a court sponsored referendum, it was decided that a new, Metis-only organization should replace the old association. About 53% of those Association members who participated in the referendum voted in favor of the Metis association. But before such a change can be made, provincial court Judge Joseph McIntyre must make recommendations of the division of the old association assets. It is expected that he will suggest that non-status Indians remain eligible for services from the Metis society. At present, there are no plans to establish a separate association to deal with the concerns of non-status Indians in Saskatchewan.

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Alberta
PREMIER'S COMMISSION
ON FUTURE HEALTH CARE
FOR ALBERTANS



Letters to The Editor

Uncontrolled Industrial Expansion Threatens Our Environment

I am deeply concerned about the effects uncontrolled industrial development is having on our environment.

For the white culture, modern agricultural and industrial development, for many, rests on research and an increasing control of the environment. But the Indian culture has always been based upon a need to work in harmony with nature.

Values such as the maintenance of a pollution free environment have always been of importance to the Native population for practical as well as religious reasons. Traditionally, Natives have emphasized conservation. Many tribes still practice the ancient custom of planting a tree for each one taken. Ceremonial events frequently accompany tree plantings.

Canadian Natives have always had deep spiritual feelings and beliefs that each animal, tree or inanimate thing is inhabited by a spirit that can help in times of difficulty. However, the European arrived and his influence disrupted this ethic for a time.

The European encouraged the Native to hunt fur-bearing animals in exchange for European material goods. Beaver, Marten, Fisher, Otter, Mink and Muskrat once plentiful - became depleted. The traditional incentive to conserve wildlife was weakened and the traditional spiritual beliefs of the Natives, suffered. But the Native has survived and now must deal with the consequences of a technologically advanced society.

What are we to do? We cannot go back to the past. The Native fisherman who depends on a healthy species of fish for his livelihood is finding sick specimens in our lakes and rivers. The water that flows into wells on reservations must be tested now for pollutants.

Our Mother the earth has taken care of us, as she had our grandfather, and the ones that come before them. Now the time is coming where she is becoming feeble. What can we do?

Gail Duiker



The Environment - An Election Priority

During election time political leaders become committed environmentalists. Prime Minister Mulroney's newly-found commitment to the environment is welcome news.

The majority of Canadians have indicated in recent polls that the environment should be a major election issue. The Prime Minister has said he is prepared to make it a major priority. Yet during his administration funding for the environment was cut back. Under Mulroney's government the economy and the environment were dealt with as separate issues. In order to promote economic prosperity the environment received very low priority. Only with public pressure and continuing disasters such as the PCB (Polychlorinated biphenyls) fire at St. Basil-Grand, does the government become concerned.

The environment and the ecological crisis is a world-wide problem. The final statement of the International Conference on the Changing Atmosphere held in Toronto in June concluded that the present pattern of economic activity is contributing to environmental change "whose ultimate consequences could be second only to global nuclear war."

One of the most frightening prospects facing our planet is the depletion of the ozone layer or the so called greenhouse effect, that could raise the earth's temperature by more than 4 degrees C. during the next half century. The resulting

increased amount of ultraviolet radiation reaching the earth will increase the amount of eye damage and skin cancer.

As alarming as the greenhouse effect may be, the present environmental concerns, not only in Canada but around the world is staggering. Deforestation, pollution of the oceans, soil erosion, encroaching deserts, acid rain, and industrial and chemical pollution of soil and water are some of the major factors making our planet a less habitable place to live.

The Native people in all parts of Alberta have been concerned about the harm done to the environment by pollution and irresponsible economic development. A recent case is the damage that environmentalists and the Peigan Indian band, in particular, feel will be done to the natural fishing by building the Oldman River Dam. The band has formally requested that the government order a federal environmental assessment review of the \$371 million Oldman River Dam Project.

Although many Indian bands throughout Alberta are concerned about land claim settlements, they are also equally concerned about the environment which affects the quality of their lives.

Let us hope that the new found concern about the environment by our politicians will be translated into actual programs that will help improve Canada's environment.

Joanie Parker

Native Athletes at the Olympics

In 1988 Summer Olympics at Seoul, South Korea had over 10,000 athletes vying for medal glory. The Canadian contingent numbered 350 (43 athletes from Alberta), yet native attention was focused on one individual: Alyn Morris.

Morris, who hails from the Kahnawake Mohawk Indian reserve south of Montreal, will be trying to repeat his gold medal-winning performance at the Los Angeles Olympics in his specialty, the two-man kayak event.

But why weren't there more native athletes going to the Olympics?

John Fletcher, Secretary-Treasurer of the Western Indian Native Sports group (and co-founder along with Gordon Russell of the Friends of Sports competitions) sums it up in one word: "Commitment."

"Here in Alberta," says Fletcher, "only a handful of athletes have that commitment" which is needed to become a world-class athlete.

"They don't want to give up the good times," complains Fletcher, noting that native athletes "must join clubs, track and field clubs" to receive the training they need to succeed.

Some young native athletes that have made that "commitment" in John Fletcher's eyes include Deanna



"To Be Loved"

Munson in track and field, Darryl Mackay, a 19-year old marathoner, and swimmer Teddy Littlechild, daughter of two-time

Tom Longboat award winner Wilton Littlechild, himself a Wall of Famer at the University of Alberta and a member of the Alberta Sports Council.

But those who so eagerly waited for the Olympics should not forget the 1988 Paralympics, which took place in Seoul from October 15 to the 24, and used the same facilities as the regular Olympics. There were over 3,000 athletes from 30 countries competing in four categories: cerebral palsy, blind, wheelchairs, and amputee.

The Canadian team numbered about 130 athletes and coaches, including native athlete John Belanger, a double amputee and the Canadian champion in the discus, javelin and shotput.

When asked how he expected to do, Belanger proclaimed confidently, "I'm going to finish in the top three in each event," but did admit he faces strong competition, especially from Americans John Jerome, world record

holder in the shotput and javelin, and Bill Richardson, world record holder in the discus.

Observed Belanger, "Someday we'd like to see a joining with the Olympics," and while that merger may have to wait, the dedication and determination (or, to use John Fletcher's word, "commitment") that all these athletes bring to their particular events is something all of us could learn from today.

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Eastern Canadian Conference on Native Education Coming Soon

By Joanie Parker

"Our People, Our Struggles, Our Spirit", a conference on Native education will look at the spirit of Native education through current struggles to change and growth, and hopes and visions for the future.

The conference will bring together a wide cross-section of Native and non-Native people concerned with topics designed to create an awareness of issues, to facilitate the sharing of information and to encourage joint action for positive change.

Cora Weber-Pillwax, Deputy Superintendent of Northland School Division hopes the conference will open the lines of communication between Native and non-Native people in education. She says "It is not so much a question of preserving Native culture as culture is operating and living. Rather the important thing is to keep what you are and who you are and to enhance what you have."

A number of areas will be addressed at the conference, such as: the state of Native education today, the obstacles to change and growth and ways the values of spirituality and self-determination can be strengthened.

Over 20 cooperating agencies such as Northland School Division No. 61, Native Counselling Services of Alberta, Nechi Institute and the Indian and Metis Associations of Alberta have been active in the planning and will participate in the conference.

The conference is designed so that participants and presenters



can share in a cooperative dialogue. The four major themes are interrelated and are

intended to come together in a holistic way through artistic media, presentations and discussion, small group sharing, display and films.

The cost of the conference is \$130.00 for early registration (postmarked by October 11, 88) and \$50.00 for

students. Financial assistance may be available to subsidize registration fees for those who cannot attend due to limited funds. For further information contact Community Services Outreach, Grant McEwan Community College at 462-5550.

Courts Put Fishing Rules Before Treaty Rights

Government lawyers arguing that fishing regulations take precedence over treaty rights, have been successful in prosecuting two native fishermen from the Sault Ste. Marie Band in Ontario.

The fishermen, Greg Agawa and James Victor Goulais, were found guilty of fishing without a commercial license by the Ontario Court of Appeal. The appeal decision overturns a ruling by a lower court which found Goulais and Agawa not guilty. The judge in that earlier case agreed with defense lawyers who claimed that the Robinson Huron Treaty of 1850 guaranteed special rights for native fishermen.

That treaty gave all the bands in the area of the Great Lakes the "full and free privilege to hunt over the territory now ceded by them and to fish in the waters thereof, as they have heretofore been in the habit of doing."

But, Court of Appeal Justice Gordon Blair argued that the treaty could be ignored because its drafters did not fully understand the limits of natural resources.

He said that unless Native fishermen obeyed current fishing regulations, many fish and animal species could face extinction.

Meanwhile, in a related development the Nuuchah-nulth Tribal Council of British Columbia has been fined \$10,000 for two counts of buying and selling Chinook salmon caught in 1986 by a number of its members.

Native leaders in B.C. have complained about the decision and many have promised to organize "illegal" fishing expeditions to protest.



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Daishowa Given Approval, Environmental Concerns Persist

by Gil McGowan

The Alberta government has given the Daishowa Corporation formal permission to begin construction of a pulp mill in the Peace River area.

The approval comes almost an entire year after Daishowa first began clearing a site of the proposed plant.

Daishowa was given the province's go-ahead after Alberta Environment officials had assessed and approved the company's environmental impact study.

The study estimated that the new mill would release up to 2,500 kg per day of liquid organochlorines—highly toxic compounds that are by-products of the pulp bleaching process.

Organochlorines are man-made toxins that are found in conjunction with dioxins. It has been shown that dioxins cause cancer, inhibit the proper function of the immune system and act to impede fetal development.

But government spokesmen felt confident that the new construction permits—that define facility design standards—will "ensure the protection of the environment."

They say that Daishowa's environmental safety mechanisms are the "best ethnology available" and that these mechanisms will "reduce the potential for the formation of chlorinated organic compounds which can be associated with taste and odour problems at pulp mills, including dioxins."

But Brad Wylynko of Toxics Watch, a group that has been trying to bring attention to the Daishowa plant's environmental failings, says that the government has left many questions about the plant's environmental impact unanswered.

"The plans are basically the same as those outlined last August (before the study was done). I am disappointed that no changes have been made."

Wylynko claims that the environmental protection devices that Daishowa plans to use are not the best available and are only being used because they are cheaper.

He explains that because dioxins are a by-product of the chlorine bleaching process only reductions in chlorine use can reduce environmental hazards. He asserts that the Daishowa plant's proposed production process will only reduce chlorine use by fifty percent while other existing processes could reduce chlorine use by over eighty percent.

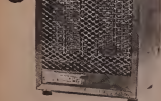
Wylynko is also concerned about Daishowa's decision in using large amounts of water from the Peace River every year.

"There have been studies on the ground-water implications for fish, farm use, recreational use," he says.

Toxics Watch has submitted a letter to the government objecting to the water use and hopes to see a public inquiry into the matter begun.



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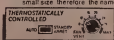
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- 5) Tip Switch — This added safety feature will enable the thermal element to be shut off in case of a tip-over therefore preventing any discolouration, damage, etc. Auto cut-out has occurred, the user must attend to the heater by manually switching the mode control from the "Auto" position to "Standby" and back again
- 6) Microfurnace plugs into any wall outlet (120V) in the home and provides instant heat
- 7) The life of the micro semi-conductor disc elements is "unlimited" Made of barium titanate as the heating component, they never exceed 200 degrees C (390 degrees F). A small industrial fan designed for 100,000 hours use (12 yrs) and distributes heat at 20 degrees C
- 8) Microfurnace has an thermostat control that also lets you adjust the desired heat output. Also use the fan without the heat in the warm months
- 9) Microfurnace should not be confused with microwaves. Micro represents 50w and furnace for the amount of heat produced for its small size. Therefore the name
- Even lighter than the original Microfurnace
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Dene/Metis Agree in Principle to Land Claim Settlement

by Joanie Parker
Under a teepee shaped canopy in Fort Rae, NWT on September 5, 1988 an historic document was signed by Prime Minister Brian Mulroney, Dene Nation President Bill Erasmus

and NWT Metis Association President Mike Paulette. The three leaders signed an Agreement-In-Principle to settle the Dene and Metis land claims in the Western Northwest Territories. The signing which concludes eight years of negotiations, sets out provisions for a settlement which will provide the Dene and Metis with ownership of 180,000 square kilometres of land and cash compensation of \$500 million.

The Agreement-In-Principle will also give the 13,000 Dene and Metis a share of any Many Native leaders and experts praised the agreement which will be the largest such land transfer in Canadian Government officials and Native leaders however acknowledge that the question of land selection is subject

to existing rights, titles and interests and must conform to zoning criteria which would limit selected lands in prime areas. The land will be selected on a community - by - community basis. Land selection will leave communities with sufficient land for public purposes and future growth, and for private, residential, commercial and recreational uses.

The Agreement-In-Principle guarantees the Dene and Metis a strong and on going voice in management of land, wildlife and renewable resources in the settlement area through their participation and membership on management boards. They will also receive preferential hunting and fishing rights and exclusive trapping rights in the region.

The financial compensation package is \$500 million in cash over the next 20 years; half of the first \$2 million in oil, gas and mineral royalties from their land and 10 percent of royalties after that. The first \$20 million of their share of royalties will be tax free.

The signing of the Agreement-In-Principle allows negotiations to begin work on the Final Agreement, which will form the basis for the federal settlement legislation, which Ottawa hopes to complete by 1990.





Shelter for Hard to House Women Now Open

by Joanie Parker

Hard to house women, suffering from mental health problems, who cannot be placed in alternative accommodations due to circumstances or life-style, now have a place to stay, thanks to People in Need Society Shelter (PINS).

Their second shelter, exclusively for women, opened in the Boyle Street area of Edmonton, September 7, 1988 with M.L.A. Pam Barrett cutting the ceremonial ribbon.

Both the women's shelter and the men's shelter, which has been running for two years as a non-profit charitable organization, operate on user fees and donations. They are not government funded and as one staff member announced, "We are not about to be manipulated by the government."

People in Need Society Shelters provide a warm safe environment for those who have been discharged from

hospitals and institutions without imposing unrealistic expectations for change or rehabilitation. Rehabilitation as defined by PINS is a state where basic needs for shelter, food, and clothing are met as well as the need for social interaction, self-understanding and self-acceptance.

Some of the program objectives include encouraging clients to meet their own needs, to socialize and to take an active role in the community. The 15 staff work around the clock and are always at the clients disposal to talk to, to go on special outings, and to provide support and encouragement. Staff have also been trained in the use of monitoring and recording all prescribed drugs to avoid misuse. Although unable to cope with structured rules initially, most who have left the men's shelter are able to live independently.

The men's shelter accommodates 25 clients and the women's shelter will house 29 women. The rooms are adequately furnished and as one of the staff pointed out, "small but large enough." There is

also a T.V. lounge and coffee room upstairs where people can socialize.

The clients eat two meals a day at Checkers Lunch and this encourages them to go outside the residence. Other food is donated from the food bank. Because there are presently no cooking facilities available meals are prepared by staff on weekends and brought into the residence. In future, plans are to take over a nearby restaurant where all meals can be served.

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Conference Reveals Valuable Native Program

by Bryan Brochu
University students desire to find summer employment related to their disciplines. A program developed by the Indian Affairs Department creates such an opportunity for a privileged number of

students.

The Indian Management assistance Program (IMAP) seeks out university students to work as consultants for Indian bands in Alberta. The fledgling program began three years ago with four students employed. Today the program has grown to over 60 students.

Bands require these students to accomplish tasks such as engineering, legal research, accounting, or computing services.

IMAP most certainly benefits the bands since these students work for a fraction of the cost of what a consultant firm would charge.

In addition the students benefit from the program, for example, they receive \$6,600 for the four months work. Many students live on the reserve and gain an unparalleled understanding of Native culture, and the students receive practical experience in their field of studies. IMAP, though originally developed

under the Federal Indian Affairs Department, is now provincially administered by the First Nations Resource Council (FNRC).

The FNRC is a non-political Indian Association which began in the fall of 1987. It has many mandates but its primary mandate appears to deal with Indian law.

At the IMAP wrap up conference in Slave

Lake August 25-27 one could detect the undaunted pride felt for the program. As Bob MacNeil, motivating force behind the Alberta program stated, "we take the best of the best. Our students display outstanding abilities both in school and on the job."

During the course of the conference one never heard a negative comment from either the employer or student.

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Energy and the Environment



Building Energy-Efficient Homes in Remote Communities

Indian Bands Participate in Special Projects

Building energy-efficient homes requires careful planning and attention to detail under the best of circumstances. Planning for success takes on special meaning in the North and other remote regions of Canada.

An estimated 250,000 people live in Canada's 350 remote communities (a community is considered "remote" if it is not on the provincial/territorial electrical grid). Basic necessities, including building materials and fuel, are transported to these communities over long distances by truck, boat, barge or plane. As a result, it may be weeks or even months between supply shipments and for someone building an energy-efficient house, that could spell disaster.

In remote communities, planning for success begins long before the first tool is picked up.

The first consideration in building an energy-efficient house in the North is the structures design and orientation on the lot. This also holds true for entire communities, which can be designed and constructed with energy efficiency in mind. When designing a home in the North, the lifestyle of its occupants should also be taken into account. The good news is that a home that suits a rugged, northern lifestyle can still be energy-efficient.

Selecting an appropriate heating and ventilation system for the climate and area is the second important consideration. With this in mind, the new community of Peawanuck in northern Ontario was chosen as a site for a demonstration project involving five makes of energy-efficient wood-heating appliances.

The project was initiated under the Remote Community Demonstration Program (RCDP) of Energy, Mines and Resources Canada (EMR).

RCDP is designed to help communities and individuals in remote areas find ways to exploit local energy sources, develop and employ energy-efficient technologies, and build energy-efficient homes.

EMR's partner in the project was the Weenusk Indian Band, whose members were clearly determined to live in comfortable, energy-efficient homes after their former community was wiped out by a flood. The project offered an actual community showcase of the relationship between energy-efficient housing and properly sized, located and installed wood stove systems. It also furthered the safe use and proper maintenance of residential wood stove operations in remote native communities. And finally, it resulted in significant fuel savings: residents estimate that wood use dropped to two to three cords per year from the 15 cords used in their previous homes.

Planning for skills is also an essential ingredient for success in the North. A properly oriented and designed home will not be energy-efficient unless proper techniques are followed throughout construction.

That means a home builder or community may have to send local tradespeople for special training, or have the training, such as an R-2000 Builders' Workshop, brought directly to the community.

The Island Lake Tribal Council in northern Manitoba launched such an initiative when they sent more than 30 tradespeople from several bands for special training on energy-efficient housing construction. The skills acquired at this special builder's course were then put to use in constructing the first-ever energy-efficient homes

on northern Manitoba reserves. This project also received RCDP funding.

The suitability of R-2000 housing in remote communities was also put to the test under RCDP.

In this project, the Selkirk Indian Band built eight R-2000 houses at Pelly Crossing, Yukon. Workshops were developed and delivered for tenants and maintenance staff, and a comprehensive monitoring program was implemented to assess the project. In addition to improving the quality of housing in Pelly Crossing, each of the R-2000 homes has saved approximately 900 litres of oil per year, which will reduce the flow of money out of the community.

Despite the efforts of RCDP and other government programs, significant impediments remain to energy-efficient home construction in remote communities. One of the most obvious is the availability of building materials.

To overcome the problems of availability and cost, many home builders in the North joined together to order building materials in bulk. They are also learning to order all their supplies at one time and to ensure that everything is delivered as promised. In remote communities, even the absence of a few sheets of insulation or wallboard can wreak havoc on the best-laid plans.

Despite the obstacles, it has been proven time and again that energy-efficient homes can be built in remote communities. That is an indication both of the adaptability of Canadian housing technology and of the determination and ingenuity of our northern residents.

Images

The setting sun
Exudes beauty
In an atmosphere
of tranquility
And the wonder
Of it
Inspires my imagination
To run free

To images of
Past history
And in my mind
I see
The Indians
Of long ago
As they hunted
Throughout the valleys
And roamed the plains
Free of will

And from out
Of the past
I hear
The beat of drums
Faint
But yet so near

Soon voices join
The beat of drums
A crescendo
Of victory
As images of long ago
Dance in front of me

But than the night
Softly falls
And I am awakened
To reality
Gone are the images
The beat of drums
No more
Where are the sound
Of voices
The emotions
They bore

Now only shadows
Linger
Faint memories
Of a people

Who were once
Proud and free

By Lorette Miskenack

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The Wood Bison - Still

by Joanie Parker
The Story of the buffalo in North America is one of the most incredible animal stories ever told. According to one source, "there were over 50 million and if one buffalo walked by every two seconds, the parade would last about three and a half years. However, by the 19th century these vast herds were almost brought to the brink of extinction. By the late 1800's the Wood Bison population declined as a result of severe winters, disease, and increased hunting pressures of white travelers. White hunters often left bison carcasses to rot, unlike the Indians who didn't kill many and always made use of every part of the animals they killed.

In Alberta today, approximately 84 percent of the total population of Wood Bison, a larger and darker coloured cousin of the more familiar Plains or Prairie Bison, can be found in semi-captivity in Elk Island National Park east of Edmonton, and in the wild, at Mackenzie Bison Sanctuary along the northwest shore of Great Slave Lake. Earlier conservation efforts included protection through legislation in 1877 and 1893 and the establishment of Wood Buffalo National Park in 1922. With the discovery of an isolated herd in the park in 1957, recovery efforts of the Wood Bison first began and finally in 1975 a co-operative recovery program was initiated by the federal, provincial and territorial governments. Since 1978, the Wood Bison Rehabilitation Program, a co-operative effort of a

number of agencies, has worked to establish free-roaming herds of Wood Bison.

The efforts to re-establish the Wood Bison is one reason the conservation horizon in western Canada is improving. The Wood Bison population has increased dramatically from 200 animals in 1959, to more than 2,500 in 1988. Consequently, the Wood Bison have moved from the endangered species list to the threatened category, although they are still not out of danger.

According to Sonja Bata, a director of World Wildlife Fund, "At a time when we are losing three species a day from the planet, the successful recovery of the Wood Bison demonstrates that, with a concerted effort, we can bring species back from the brink of extinction."

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The Greenhouse Effect: Our World in Danger

By Bryan Brochu

"Our land is more valuable than your money. It will last forever. It will not perish as long as the sun shines and the waters flow, and through all the years it will give life to men and beasts."

When Crowfoot uttered these words in 1876 it would have sounded poignant and philosophical, anyone Native or non-Native could accept that the land would last forever—that it would always support life.

But today Crowfoot's wise words sound dated. With current environmental concerns becoming more and more prevalent, people are beginning to realize that the land may not last forever if industries continue to pollute land and atmosphere.

The greenhouse effect and depletion of the ozone layer are two of the most recent environmental issues to threaten our world.

The term 'greenhouse effect' refers to the kind of gases being released into the air which cause the upper atmosphere to behave like the glass roof of a greenhouse. Gases such as carbon dioxide, methane, freons, nitrous oxides, and ozone allow the sun's energy into the atmosphere but absorb the energy after it has been reflected from the earth's surface, whereas normally much of this energy would have been reflected into space.

These gases are released by deforestation and the combustion of fossil fuels: namely coal, oil, and natural gases.

The gas which worries scientists most is carbon dioxide. At present the burning of fossil fuels, to meet our increasing energy needs, dumps nearly five billion tonnes of carbon dioxide into the atmosphere each year.

Global deforestation is also a cause of this increase. Trees absorb carbon dioxide and store it as carbon in their tissues. Mass burning of tropical forests (primarily in South America) cause the release of this carbon dioxide.

The amount of naturally produced ozone, the stratospheric gas which filters the sun's harmful ultra-violet rays, is decreasing due primarily to an excess of man made chlorofluorocarbons (CFC's). CFC's are used in refrigeration, air conditioning, packaging, insulation, and as aerosol propellants.

Since the mid 1970's Canada and the United States have worked to limit the amount of chlorofluorocarbons released into the atmosphere. In 1982 Canada placed a ban on CFC's as propellants in hair sprays, deodorants, etc. Since 1981 the United States has had a total ban on the use of freons as propellants. Despite these North American restrictions freons in the atmosphere are increasing at a rate of 5-6 per cent per year.

There is now strong evidence suggesting that the greenhouse effect may also contribute to the destruction of ozone gas. Due to the continued warming of the surface the stratosphere becomes cooler; but ozone production in a cooler stratosphere is not as efficient. Thus less ozone can be naturally produced.

Despite the alarmist nature of the media the results of the greenhouse effect are highly speculative. Scientists agree on the causes but they simply do not know the outcome. By 2030 the global average temperature may rise by 1.5°C where they were up to 4.5°C. No one can know for certain.

But once the 1.5°C threshold is exceeded there may be a number of, ironically termed, "positive feedbacks" (secondary results of the greenhouse effect). One such feedback will be due to a warmer planet and the resulting increased rate of evaporation—water vapor is the product of evaporation in addition to being a greenhouse gas. Water vapour will trap heat as effectively as carbon dioxide but scientists do not know to what extent this will affect the warming trend.

To a lesser extent the melting of snow and ice can be considered a 'positive feedback' as they are excellent reflectors of infrared radiation. If they melt then we can expect a further increase in global temperature.

If all goes as predicted with this theory, global warming spawns further warming, then a city, such as Dallas, Texas, currently receiving an average of 19 days per year of 100°F temperature



(or higher) will, by the year 2028, experience around 78 days of 100°F temperature or higher.

The implications do not appear as serious in Western Canada though. In a recent report from Environment Canada, it was predicted that, "... the average effects on the (agricultural) sector will be small; the greatest risk is of more frequent crop failures due to drought."

The greenhouse effect will most certainly have its greatest impact on the Arctic. In this region it is estimated that the average temperature may increase by more than 4.5°C. At this extreme temperature shift more than just the Arctic region will be threatened.

Global warming may also cause mass extinctions of animals—possibly in our lifetime. In the past species have always had time to adapt to changing climatic conditions. For example, millions of species have survived the onslaught of ice ages and survive. But an ice age occurs over thousands of years, climatic change will take place much too quickly for species to adapt in order to survive.

Animals will then be forced to flee their existing habitat in search of a more agreeable climate. But reality will not allow such a migration. Everywhere the animals go to survive they will be interrupted by mans presence. The wildlife preserves intended to protect animals may, in fact, become prisons. They will have nowhere to run.

Other results of the greenhouse effect will be a rise in ocean levels due to ice cap melting and precipitation increases in addition to general change in air circulation affecting cloud, precipitation and wind patterns.

If all the ozone in the stratosphere could be collected and formed into a cover surrounding the entire planet the cover would only be 3 mm thick. This trifling band of gas protects surface dwellers from harmful ultra-violet rays emitted by the sun. Without ozone most surface organisms would die quickly.

As the earth's ozone supply depletes scientists warn of an increase in the incidence of skin cancer.

In the early 1980's an ozone hole was discovered over part of Antarctica. Initially scientists disagreed over the cause of the 'hole'. Some contended that the 'hole' may have existed for hundreds of years while other scientists argued that it was a relatively new phenomenon. Today scientists know that the 'hole' was caused by CFC's in the stratosphere.

In 1987 Canadian scientists found evidence for what they believe may be a similar ozone hole over the north pole. While the data is still

somewhat inconclusive the reality of this scenario, ozone depletion is beginning to have an alarming impact on the environmental community.

The point to be made from all of this is that our society condones the destruction of our planet by allowing, relatively unchecked, mass deforestation and chemical dumping into the atmosphere. Our irresponsibility has led to the predicament we are all on the threshold of facing.

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Plan for Energy

The House as a System

In recent years, many have upgraded the energy efficiency of their homes. By adding insulation, installing draftproofing, and improving the efficiency of their heating systems, they have achieved significant savings on their fuel bills.

In some cases, energy-conserving improvements have resulted in unforeseen problems such as moisture build-up on windows or in attics, or inadequate ventilation.

Fortunately, there's an easy way to avoid these problems. It's based on what building professionals refer to as the "house as a system" approach, which recognizes that each house is a dynamic and interactive system of heat, air and moisture flows. These flows need to be kept in proper balance, particularly when home improvements are made.

Keeping the flows in balance is a matter of ensuring that changes to the house, like adding attic insulation or draft proofing, do not adversely affect key determinants of the indoor environment such as indoor humidity, ventilation levels and heating efficiency.

Look Before You Leap

Using the "house as a system" approach to home improvements is really a question of looking before you leap. It is a matter of using common sense to anticipate how changes to your house will affect the exchange of heat, air and moisture which is continually occurring between your house and the exterior environment.

The manner in which the exchange occurs depends on three components: the building envelope or shell; the mechanical systems for heating, cooling and ventilation; and your lifestyle. Changes in any one of these components will have impacts on the overall balance of heat, air and moisture flows achieved in the system.

This is best illustrated by some examples which cover common changes in the building envelope, mechanical systems and lifestyle. All of the examples outlined below demonstrate how changes in your house influence heat, air and moisture flows, and how care must be taken to properly manage the impacts on all three flows.

Changes to the Building Envelope

Your home's building envelope consists of all the exterior surfaces which separate your indoor environment from the outside. These include exterior walls and ceilings, windows and doors, and the basement.

The flow of heat, air and moisture through the building envelope must be properly controlled to ensure the optimum in comfort, energy efficiency and structural soundness. Different strategies are required to control each flow: insulation is used to control heat flows; draftproofing and air barriers to control air flows; and vapour barriers to control moisture flows.

Insulation

Adding insulation to your building envelope will reduce heat losses which occur by conduction, convection and radiation. However, it will also make the outside part of the building envelope colder. This increases the potential for condensation problems when moisture produced by indoor sources such as cooking, bathing, clothes washing and respiration moves outward through the building envelope, either by moisture-laden air flows or by the process of vapour diffusion.

This means that insulation work and

structural components must be protected by an effective air-vapour barrier which is impervious to the passage of water vapour and moisture-laden air. A continuous sheet of 6 mm polyethylene provides an excellent air-vapour barrier. Alternatively, the barrier can be achieved by sealing all the air leakage points at cracks and penetrations in the building envelope and applying several coats of an impermeable finish, such as low permeability latex paint, to walls and ceilings.

Draftproofing

Installing caulking and weather-stripping to seal the cracks and penetrations in the building envelope will reduce warm air leakage which is a major source of heat loss in most Canadian homes. However, air leakage control also reduces the natural supply of fresh air. While it is difficult to seal a house so tightly that fresh air supplies are inadequate, it is still advisable to make sure that your house has sufficient ventilation after air sealing work is completed.



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Energy Efficiency



will involve reducing indoor sources of moisture production, through such measures as limiting the excessive moisture production, through such measures as limiting the excessive moisture produced by washing and cooking, turning off humidifier, making sure your dryer is vented out-doors, and ensuring that your basement foundation is properly drained and damp-proofed. It also involves ensuring adequate ventilation by installing kitchen or bathroom fans or, if necessary, a heat recovery ventilator.

Energy-Efficient Windows

Replacing older "leaky" windows with more energy-efficient sealed units can sometimes cause problems with excessive window condensation. However, it's usually not the fault of the windows or the installer. It's more likely due to the fact that the windows have made your house lighter, causing indoor humidity levels to rise to the point where excessive window condensation occurs. The solution is to find ways to reduce indoor moisture production in your house as outlined above.

Changes to Mechanical Systems

Mechanical systems include all the household equipment and appliances which condition in influence your indoor environment. Changes in these systems may have major impacts on heat, air and moisture flows. For example, adding a clothes dryer which is not vented directly to the outdoors will increase indoor humidity and the potential for moisture problems. Similarly, excessive operation of a humidifier may lead to extreme indoor moisture levels and ensuing damage to structural components of the building. Watch for the symptoms of excessive humidity noted previously.

Installing powerful exhaust fans, particularly if your home has been draft proofed, can sometimes make it difficult for combustion appliances like furnaces and fireplaces to operate properly. It is advisable to have the tradesperson check the new installation to ensure that there is a sufficient supply of fresh air for both the exhaust fans and combustion appliances and they can operate simultaneously without problems.

Converting from older oil or gas heating to electric or reduced fuel action heating not only changes the way you heat, but will also make your home more airtight. This is because the air leakage associated with the operation of the oil or gas flues will be reduced or eliminated. Consequently, you should watch for signs of excess humidity, just as you would after a significant draft proofing job.

Lifestyle changes

Changes in your lifestyle directly affect your indoor environment. For example, if your family is growing in size, there will be more moisture produced by cooking and washing activities. This may require greater care to avoid excessive humidity levels.

Depending on the changing needs and preferences of your family, there may also be changes in thermostat settings and exhaust fan operation which will affect heat and air flows. The impact of these changes on the overall operation of the house should always be considered.

Working with Contractors

An awareness of how a house operates as an inter-related set of heat, air and moisture flows is also important in choosing and working with home improvement contractors.

Inadequate ventilation may produce air quality problems indicated by stale or stuffy air or lingering odours. If these symptoms occur in your house after draftproofing work has been carried out, it may be advisable to increase ventilation by adding kitchen or bathroom fans. You should also ensure that potential sources of air pollution such as paints and solvents are well-sealed and stored in a ventilated area so that excessive concentrations of fumes will not be a problem after air leakage control work has been done.

In addition, draft proofing work will tend to increase humidity levels in your house since there will be less natural ventilation to expel the moisture produced by indoor sources. To ensure that humidity levels are not too high, watch for symptoms such as substantial condensation on windows during the winter, evidence of mould or mildew on walls or ceiling, or moisture build-up surfaces in the attic.

If these symptoms exist, you will need to implement a moisture control program. This

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Test Your Energy IQ

Just how much do you know about the energy factor in your home?

One way to find out is by taking this home energy quiz. It's an entertaining way to test your energy IQ, and possibly increase your knowledge of home energy issues. Encourage family members to join in a little friendly competition to see who has the best knowledge of home energy issues.

If you pass the quiz with flying colours, chances are you're already living in an energy-efficient home. You are also fully aware of such benefits as reduced heating costs and increased comfort.

If your results aren't so great, don't despair! You should learn enough from the quiz to take the first important steps toward making your home more energy-efficient. Inexpensive measures such as caulking, weather stripping and extra insulation usually pay for themselves quickly, and you'll enjoy the benefits for years to come.

1) In the average home, the area of greatest energy loss is the:

- a) attic
- b) doors and windows
- c) basement
- d) air leaks throughout the building
- e) walls

2) After space-heating, which of the following accounts for the largest portion of your energy consumption?

- a) major appliances
- b) lighting
- c) water heating
- d) minor appliances

3) How often should your heating appliance (furnace or boiler) be serviced?

- a) after every heating season
- b) before every heating season
- c) about every other year
- d) when you notice decreased performance or have problems with the system.

4) The filter in a force-air furnace should be cleaned or replaced:

- a) whenever it is dirty, but at least once a month during the heating season
- b) once a year after the heating season is over
- c) every six months or so

5) Condensation (the release of water vapour from the air) occurs when warm air comes into contact with a cold surface. Too much condensation in a home can result in:

- a) rotting of wooden window frames, sills and trim



- b) wet, compacted insulation with reduced thermal resistance values
- c) peeling, mouldy paint and wall finishes
- d) rotting of the building's structural materials
- e) all of the above
- f) none of the above

6) The first step to take to reduce condensation problems in a house during winter is to:

- a) buy a dehumidifier and run it constantly until the problem disappears
- b) limit the amount of moisture produced in your home
- c) open windows slightly, even in the winter, for a few hours each day

7) The main reason for having a conventional fireplace is to:

- a) enhance the aesthetics of a room
- b) supplement the primary heating system
- c) heat the entire house
- d) help reduce the amount of energy used by the primary heating system

8) When insulating a basement wall that has a history of major moisture problems, you should:

- a) use a waterproof insulation material
- b) install a heavy-duty moisture barrier
- c) insulate from the outside
- d) not insulate until the moisture problem has been eliminated

True or false?

9) An insulation material's ability to keep the heat in your home is based solely on its thickness. One millimetre of any type of insulation will always insulate as well as one millimetre of another.

10) Installing extra insulation is always the first step you should take to improve the energy efficiency of your home.

11) Hot air rises, so insulating the attic will make a house energy-efficient.

12) To remedy condensation problems, the earth floor of a crawl space should always be left uncovered so that it can dry out naturally.

13) Windows typically account for 10-25 per cent of a house's heat loss.

14) Caulking and weather stripping materials are all the same. Any one type can seal the different joints in your house as well as another, so it makes sense to buy the least costly product.

15) It is important to seal the sill plate (the joint where the house frame meets the foundation

wall) because this area can be responsible for a large part of the total air leakage in a house.

16) If weather stripping is properly applied to doors and windows, the unit cannot be opened.

17) For each degree you set your thermostat above 20° C (on a 24-hour basis), your fuel consumption will increase an average of five per cent.

ANSWERS

Score one point for each correct answer. More importantly, remember that each question you have answered incorrectly may be costing you money!

1. d) Air leaks throughout the building.

2. c) After space-heating costs, water heating accounts for the largest portion of your energy consumption. In fact, water heating uses more energy than all of your lights and appliances combined.

3. b) Annual servicing prior to the heating season is the best way to ensure safe and efficient operation of your heating system.

4. a) This will help the furnace deliver heated air to all the rooms in your house.

5. e) If untreated, large amounts of condensation can result in all of these problems.

6. b) Simple measures such as cooking with lids on your pots and avoiding hanging wet clothes to dry indoors will reduce moisture production in your house. Opening windows can help reduce condensation, but this isn't a practical solution because of the vast amount of heated air it wastes.

7. a) Fireplaces can enhance the aesthetics of a room tremendously. However, they cannot serve as effective primary or supplementary heat sources, and often cause the primary heating system to work harder than if the fireplace wasn't operating.

8. d) Concrete basement walls with moisture problems should be insulated only after the problems have been eliminated and the wall thoroughly damp proofed.

9. False. A material's thermal resistance value, or ability to resist heat flow, is measured in RSI (metric) or R (imperial). The higher the RSI or R value, the better the material insulates. In some cases, one millimetre of one type of insulation can have a higher thermal resistance value than two millimetres of another material.

10. False. No single conservation measure will always be most appropriate in every case. Before taking any measures, determine the extent of air leakage from your home, existing levels of insulation, and the condition of the heating system.

11. False. Heat moves in any direction, as long as it's moving from a warm spot to a colder one. Attic insulation will help but it will not, by itself, make your home energy efficient.

12. False. Earth crawl spaces should always be covered with a moisture barrier. Otherwise, moisture from the earth will make its way into the living space of the home where it can lead to condensation problems.

13. True. The good news is that you can reduce this heat loss by increasing the layers of glazing in a window, and by thoroughly caulking and weather stripping the joints in and around the window.

14. False. Many materials are designed for special applications, so choose the appropriate material for the job. Don't base your decision on price alone: inexpensive materials may not be very durable or effective.

15. True. The sill plate should be one of your top air-sealing priorities.

16. False. Weather stripping is designed to be installed at any moveable joint. Applied properly, it should make these units airtight while allowing them to open and close freely.

17. True. And the reverse is also true: for each degree you set your thermostat below 20° C on a 24-hour basis, fuel consumption will drop by about five per cent.

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Alternative Fuels Offer Environmental Benefits

Canada's alternative transportation fuels offer much more than an economical and reliable replacement for gasoline; in many cases, they promise cleaner air for future generations.

Propane and natural gas, the gaseous fuels, have been widely proven as a viable alternative to gasoline in hundreds of thousands of applications across Canada and around the world. While these fuels are saving motorists hundreds of dollars in annual fuel costs, they are at the same time reducing environmental pollution.

The combustion of gasoline and diesel fuel releases a variety of noxious emissions into the air. The problem is especially evident in large urban areas where there is a high concentration of vehicles.

Gaseous fuels, on the other hand, are relatively clean-burning. With the help of catalytic converters, carbon monoxide and hydrocarbon emissions from propane and natural gas can be reduced by as much as 90 per cent. Lead emissions are eliminated.

Propane and natural gas offer special promise for urban mass transit systems, which today are largely dependent on diesel fuel. In fact, a demonstration project of natural gas-fueled city

buses in Hamilton has to date produced positive results, and a similar project was conducted using propane to fuel buses in the Ottawa-Carleton region.

Methanol is a third alternative fuel that holds the promise of cleaner air in the future. While this alcohol fuel is currently manufactured from natural gas in Canada, it can potentially be produced from wood, coal, oil or even municipal waste.

When used in place of gasoline, methanol can reduce hydrocarbon and other polluting exhaust emissions. When diesel engines are modified to use methanol, soot emissions are almost entirely eliminated.

Low percentages of methanol (up to five percent) can be mixed with gasoline and used in conventional vehicles without modifications to the engine or fuel system. It is estimated that using blended fuel reduces unburned hydrocarbon emissions by up to 15 percent and also reduces levels of carbon monoxide. Methanol also boosts the octane level of the gasoline, and for leaded gasolines this can allow a reduction in the need for lead additives.

Methanol may also be used in automobiles in the "neat" or almost pure form. This requires the

vehicle manufacturer to design the engine and fuel system to be compatible with methanol so that the fuel's superior properties can be fully utilized.

Testing is being done to determine methanol's suitability as a transportation fuel in Canada's harsh climate, and particularly to identify any concerns about durability of engine parts in cold weather.

In 1985, the first Canada-wide field trial of methanol-fueled large engines, called Project MILE (Methanol in Large Engines), was initiated. Sponsored by Energy, Mines and Resources Canada, this ongoing program will obtain the data for a comprehensive evaluation of the viability of methanol as a fuel for urban buses, intercity buses and medium- and heavy-duty trucks.

In the longer term, electricity has the potential to become a promising alternative fuel. Electric vehicles themselves produce absolutely no noxious emissions to contaminate the atmosphere. Moreover, they are remarkably quiet. In countries like Canada, where the mainstay of electricity production is not coal, the overall effect on the environment of electric vehicles would be positive. Certainly the growth of carbon dioxide in the atmosphere known as the "green house effect", would be slowed.

Hydrogen is another fuel with long-term potential for the transportation sector.

Hydrogen, derived by splitting water into hydrogen and oxygen elements, offers a number of environmental benefits. Toxic emissions would be eliminated, making the fuel especially useful in closed spaces, such as mines, warehouses, factories and sports complexes. The use of hydrogen to fuel vehicles would also contribute to a decline in pollution and acid rain in urban areas, and would slow the greenhouse effect.

Fisheries Report urges Stronger Stand

By Lisa Voldeng
The inevitable is occurring.

According to the Lac La Biche Fisheries Task Force report, fishery in the area may never recover unless extreme measures are taken.

The report, which was completed in late September, states that overfishing and mis-

management have led to the seriousness of the problem.

Recommendations in the document include:

- Promotion and regulation of catch and release and barbless hooks.

- Establishment of catch limits and fish size restrictions in accordance with maturity of breeding

populations.

- Increase of angling fees.

- Closure of waters during spring spawning season.

- Elimination of fish derbies.

The report also criticizes the government for the lack of concern for fish and wildlife issues regardless of the fact that fishing contributes at least half a billion dollars annually to the economy.

Members of the task force, which include sport and commercial fishermen, also recommend the establishment of a regional fisheries commission.

Task force members concede that it will be

difficult to get both the government and the public to agree to those recommendations.

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TRICIL IN ALBERTA

An expert exposes the truths and myths of PCB disposal Alternatives to incineration

By Ilona Biro

The federal government has made a commitment to eliminate the use of PCB's in Canada, but according to one expert, the new policy may be nothing more than pre-election double talk.

The government plans to lease mobile PCB incinerators from the U.S. for seven to eight months at a time to help solve the problem of PCB's. But incineration is no answer, says Dr. Paul Connett who was in B.C. to speak with local officials of Ashcroft/Cache Creek about the area's proposed incinerator.

Connett says a powerful industrial lobby has convinced the regulatory agencies in Canada and the U.S. of the efficiency of their technology, although incinerators have never been proven safe.

"I think that there are many people in our regulatory agencies who have got this fixed idea that incineration is the only 'practical' quick fix solution to the problem, which is ludicrous, because clearly a chemical method requires far less capital investment and is much safer and more acceptable to the public," says Connett.

Following a Swedish conference on dioxins, Connett says it was surprising that



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incinerators were sold so quickly to government officials. There are several other methods of destroying PCB's and related toxins chemically which pose less of a risk than burning toxic waste, he says.

"To my knowledge there are at least three different methods of destroying chlorinated hydrocarbons of which PCB's are just one family of compounds. One is ozonolysis, using ozone, though it's only been successful on small quantities of PCB's. The second method is sodium treatment which is the use of an agent called Ka-peg, or potassium polyethylene glycol. That has been in the literature for a number of years."

But Connett's main area of interest has been the exposure to toxins through the food chain.

He stresses that people in Vancouver should be concerned about the proposed incinerator in the interior because food from the region will be exported and sold in Vancouver. One quart of milk that comes from the region can contain as much dioxin as one would receive from breathing the air around it for 8 months. One quarter pound of butter made from the same milk is equivalent to breathing the air for one and a half years.

Since Ashcroft/Cache Creek was chosen by the provincially appointed Special Waste Advisory Committee as the site for a 20 million dollar toxic waste incinerator, reports of incomplete voter's lists and misinformation have left the town torn between economic health and physical risk.

While proponents of incineration claim that their plants would be subject to continuous

monitoring, there are no reliable methods to measure the dioxin and furane formation that takes place after the combustion chamber stage.

Once a company passes a test burn under ideal conditions, the public has to believe that over the next twenty years the facility will be operated up to that same level of efficiency, says Connett.

The company which holds seventy-five per cent of the joint venture to establish the Ashcroft incinerator has been the subject of legal action in Arkansas. Due to the abnormally high rates of neurological disorders, cancer and tumours in their community, the medical community of El Dorado decided that ENSCO, the operators of the plant were subject to legal action.

Connett says industries have been allowed for decades to produce chemicals that they themselves are unable to destroy. "If you are clever enough to make that chemical then you should be clever to destroy that chemical, and if you can't destroy that chemical (of which you have the most knowledge and experience), then you have no right to put it on the marketplace."

The company whose PCB's raged in the chemical fire in St. Basile Le Grand had nowhere near the resources needed to fund their disposal. To aid the destruction of PCB's and other toxins in Canada, some analysts have suggested the establishment of a "superfund" like the one in place in the U.S. This type of fund would ensure that clean-up of hazardous waste could take place immediately. Arguments about who would pay for the process could follow.

Connett urges that toxic waste destruction would be regulated on a continent wide basis much like the acid rain issue.

Legendary Best

By Ian Birse

The Alberta Indian Arts and Crafts Society show is an impressive display which focuses on small, high quality samples of genres ranging from basket work to pewter jewellery. This emphasis on quality over quantity gives a spacious feeling to the exhibition, and allows the viewer to concentrate on each piece individually.

It would be difficult to pick one piece as being most impressive, as all the work is uniformly fine. Perhaps most eye-catching is a feathered head-dress by Sarah Carr of Red Deer, which is predominantly white from the feathers to the beaded band at the forehead. The spots of red on the black-tipped feathers, and the blue, red and yellow design on the forehead band only make the overall effect more brilliant.

The examples of woven basket work selected (from Mic Mac Arts and Crafts of Nova Scotia and unnamed contributors from Ontario and Fort Liard, NWT), are pleasing to the eye for a much different reason. The Mic Mac and Black Ash baskets impress the viewer with their very simplicity — bare wood, flawlessly woven. More colorful are the porcupine quill baskets from Fort Liard and Ontario, featuring, deep, rich tones in the dyed quills.

The clothing included in the exhibition ranges from a moosehide jacket which looks very comfortable and solidly made (Celine Klein Geist, Edmonton) top highly decorated pieces, such as a lady's fancy dress, purse and moccasins in white leather, decorated with a blue and green floral motif and a belt and leggings which are totally covered by beadwork, again featuring the repeated flowered pattern.



The pewter jewellery of Ned Birch (Manitoba) is probably the least traditional of all the works shown. While remaining rooted in the Canadian Indian visual tradition, he freely incorporates influences from other folk styles as well as contemporary art. He combines small paisley figures on a button shape, to give the impression of "either a primitive mask or classical Victorian fabric," to quote from the title card.

Another piece, entitled "Paisley brooch", traces the paisley design back to the mango shape which inspired East Indian Batik designs, and incorporates a floral border influenced by Scottish patterns — hence the

name Paisley. The central pattern of the brooch uses a Canadian Indian pictograph style to depict seeds and rebirth.

The Alberta Indian Arts and Crafts Society deserves kudos for bringing these crafts people into a gallery setting. The Society has been in existence since 1975, and is dedicated to nourishing and promoting Alberta Native arts and crafts in Canada and abroad. It serves as a resource centre and advisory group for the Native arts and crafts sector of the province, providing assistance in product development and production and market place selection. It also offers business management and local craft support training programs.

Later in 1988 and on into 1989, the society plans more shows in Edmonton and Calgary galleries, as well as a series of one-week craft courses on Alberta reserves. A show entitled Ritual Imagery is currently running until November 10 at the Malwood Gallery in Victoria, B.C.

Next on the agenda for the Society is the National Canadian Indian Arts and Crafts Show and Sale to be held October 20-30 at the Convention centre in Edmonton. Anyone interested in having their work included in a show or needing more information should contact the Society at 426-2048.

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by Loretta Miskinack

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Need for Native Control Hospital Still in Question

by Joanie Parker

A special inquiry into health services for Natives living in northern Ontario was launched earlier this month. Last winter five Cree Indians went on a hunger strike hoping to make known to the federal government and to the general public the inadequate health delivery and hospital services that were

In an interview with Canada A.M., Josias Fiddler, former Chief of the Sandy Lake

Band, explained that the hunger strike was to "try and improve the conditions and services in our area and to draw attention to our people for the need for a Native control hospital."

He cited examples of the lack of health care for infants and elders saying: "A young girl was expecting a baby and after going to the nursing station in her area, she went back home and that evening she had the baby on the floor of the outside washroom." He continued by saying "National Health and Welfare said she didn't know she was carrying a baby. The baby passed away on the floor of the washroom."

He went on to describe the lack of

care for elders by pointing out that "they have to be sent down to the south to nursing homes so there is actually no service here"

Mr. Fiddler hopes that with the establishment of a health panel, the concerns and recommendations of the Native people will

be seriously considered by the federal government and that everyone

will understand that there is a real need for change.



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Northern Agreement - In - Principle Signed

by Bryan Brochu

The Northwest Territories recently signed an agreement in principle with the Federal Government which will inch them one step closer to achieving provincial status.

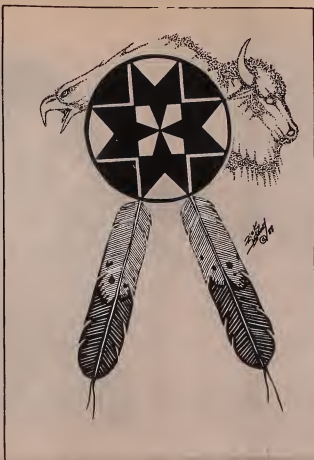
On September 6 Northwest Territories government leader Dennis Patterson and Prime Minister Brian Mulroney inked an agreement-in-principle for a Northern accord.

The primary issue of the accord is "the transfer of legislative responsibility for managing and regulating on-shore oil and gas resources to one or both territorial governments."

This means that the Northwest Territories will have the right to dispose of and administer oil and gas rights along with control over oil and gas.

All oil and gas resource revenues are to be prescribed by the Northwest Territories government - except those revenues committed to aboriginal claims settlements.

The transfer of legislative authority will be completed in phases.



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Until the final objective, of full legislative control by the Northwest Territories government is met, the two governments will "share decisions" regarding on shore oil and gas activity.

Under terms of the agreement offshore oil and gas management will never be placed under sole control of the Northwest Territories government. The Federal Government wishes to share management in this region, particularly the lucrative Beaufort Sea area.

A key issue in obtaining provincial status is the control over natural resources as this allows for the dispersal of substantial revenues for the regions from which. In comparison, Alberta, though achieving provincial status in 1905, was not granted control over natural resources until 1930.



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by Everett Lambert
Political challenges still confront Canadian Native people. Vis-à-vis, politics of the 1920's and 1930's, Native politics of the 1970's and 1980's, have both experienced change and retained similarities. All in all, the aboriginal political scenario has taken on an improved stature.

One of the differences is in organization, per se. In the post WWI period and during Dirty Thirties many Native groups were still working on simply becoming an organized, formal collectivity. For instance, in late 1919, the League of Indians of Canada was officially formed (Cut-hand p. 31).

The first national Indian leader was Lieutenant F.O. Loft, a Mohawk chief from Toronto, who went to London...to ask the ... Privy Council for a hearing on behalf of the Indians. He was told to organize his people before becoming a representative. Working out of his home...Loft became president and secretary-treasurer of the League... which held its first congress... 2-4 September, 1919.

Loft made up three quarters of the executive committee. At a moderate extreme, one could say he was the League of Indians of Canada. The league evolved into the organizations known as the Federation of Saskatchewan Indian Nations and the Indian Association of Alberta.

Contrastingly, in



1973, Canada had a total of 48 Native political organizations, which represented provincial, regional and national constituencies. Within the last 14 years many more organizations have sprouted and great changes have taken place. Funding has increased four fold: from approximately \$4.4 million in 1971-1972 to \$19 million annually (DIAND 1980-99). Of course one of the advantages of multifarious groups is that each group is specialized to handle its distinct constituency and its issues. The next step is unity and cohesion amongst the various groups.

Education of the leaders, an important area in political development has also experienced change for the better. In the 1920's and 1930's, sufficiently educated Native people were a rare commodity. Even in the late 1950's the rate was discouragingly low, with only 40 registered Indians at universities and colleges. In 1979, this had mushroomed to phenomenal 2,600. In

the 1980's, with downsizing in the world economy and a concurrent increase in the overall education rate of society, Native education is experiencing unprecedented rates of improvement. However, the similarity holds that Native people are still under represented in this important area.

One of the most significant changes in Native politics is the Canadian governments' attitudes. In the 1920's and 30's it was commonplace to be enfranchised under the Indian Act. Native people were not allowed to vote, leave the reserve without a permit, or enter the premises of a drinking establishment. Appropriation of Native lands was a sign of the times. Residential schools were also

concrete examples of the establishment's insensitive attitude.

Canadian Native politics has indeed improved in the 20th century. Political organization is much easier realized in today's high-tech world, than in the often harsh and illiterate decades following WWI. Although education is re-

minder of how much Native people have to improve, it is nonetheless a positive reminder of how far we have come. However, one of the most significant changes is mainstream society's attitude toward Native people: from a time of land expropriation and enfranchisement, Canada has matured to the stage where these practices are no longer accepted.

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PEP in its 17th year of operation provides wage subsidies for non-profit organizations publicly funded agencies and organizations, municipalities, provincial government departments, Indian bands & Metis settlements. The program has two elements: Community Employment & Provincial government Department Employment.

Under the Community Employment element, employers are

reimbursed for the wages of employees they hire at a rate \$4.50 an hour plus 10% for

employee benefits for each employee.

Applications for PEP funding will be received on a first-come, first-serve basis with priority given to applications received on or before October 1. In making the announcement Kowalski said "throughout its long history, PEP has

provided thousands of

unemployed Albertans with work experience which has in many instances served as an important stepping-stone to longer-term employment.

Further information can be obtained by contacting Alberta Career Development & Employment, Edmonton.



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Marchand

Northbay Fur Sales was started in 1947, as a Continuation of Ontario Trappers Association Fur Sales. This small group of trappers wanted to eliminate fur buyers and retain more of the money from the sale of their furs. In a recent interview with Alberta Native News, Western Development Officer Fred Stoerig, explained that a new federation was formed two years ago to aid trappers. The board of directors is made up of members from the various provincial and territorial trappers associations as well as the Aboriginal Trappers Federation of Canada. Northbay Fur Sales is a non-profit organization, with all funds and assets being used to ensure federation goals.

The Federation goal according to Stoerig "is to unite trappers across North America, so we can have a stronger voice. We sell traps and make some of them here. Because of our lower costs on trappers supplies, we have forced the competition

to reduce their charges. We give advances to trappers and charge only 8 per cent commission with expenses of fur shipping included."

"We are also dedicated to humane trapping procedures".

"The Alberta Humane Society is not against trapping, as long as it's done in a humane way." He urges trappers to support the Society in the very important job they are doing. It is important that we all do our part to promote the economic well-being of the fur industry, as well as practicing conservation to keep

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Natives Over-Represented in Prisons

by Gil McGown

Statistics recently obtained from the federal government show that Native people are highly overrepresented in Canada's prisons.

According to Statistics Canada, there are 12,500 inmates being held in federal penitentiaries. Of these, over ten per cent are self-declared Natives.

But figures become more frightening when one looks at each province individually. In Manitoba, for example, 39 per cent of the prisoners held at Stony Mountain and Rockwood are Native.

In Saskatchewan, 36 percent of those serving time in federal institutions are Native and in Alberta the figure is about 25 percent.

And, even though these figures may appear to be high, the number of Native prisoners in provincial penitentiaries is even higher.

In Saskatchewan, for example, 85 percent of the prisoners in provincial jails are Native.

Even the Minister of Justice in that province acknowledged the problem last year when he pointed out that while Natives make up less than 14 percent of the provinces entire population, they make up nearly 65 percent of the prison population (both provincial and federal).

At the Canadian Bar Association's recent convention James O'Reilly, a Montreal

lawyer who has spent much of his life

defending Native land claims, brought at-

tention to the Native-prisoner problem and warned that Native frustrations about the justice system are a "powder keg ready to explode across the land."

"The powder keg will have to be defused by the federal government," he added.



Images

By Lorette Miskennack

The setting sun
Exudes beauty
In an atmosphere
of tranquility
And the wonder
Of it
Inspires my imagination
To run free

To images of
Past history
And in my mind
I see
The Indians
Of long ago
As they hunted
Throughout the valleys
And roamed the plains
Free of will

And from out
Of the past
I hear
The beat of drums
Faint
But yet so near

Soon voices join
The beat of drums
A crescendo
Of victory
As images of long ago
Dance in front of me

But than the night
Softly falls
And I am awakened
To reality
Gone are the images
The beat of drums
No more
Of voices
The emotions
They bore

Now only shadows
Linger
Faint memories
Of a people
Who were once
Proud and free

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Justice System Unfair To Natives — Study

by Gill McGowan

A special committee established by the Canadian Bar Association has released a report denouncing the treatment of Native people by the Canadian justice system.

The report, entitled "Locking up Natives in Canada", says that "more than any other group in Canada, Natives are subject to the damaging impacts of the criminal justice system's heaviest sanctions."

It points out, for example, that nearly

one-third of western Canada's prisoners are Native, even though Natives constitute only five per cent of the area's general population.

To rectify this "appalling" situation, the committee has suggested that a separate Native justice system be established.

Such a system, designed and administered by Natives, would be more responsive to Native needs and could better reflect Native culture and values, the report concluded.

In a similar study produced for the Canadian Sentencing Commission, Bradford Morse, a University of Ottawa law professor, has shown that most Native prisoners do not fully understand judicial procedures and often plead guilty at the suggestion of over-worked legal aid lawyers.

His study, based on extensive one-on-one interviews with Native inmates in five

provinces, suggests that white judges who are ignorant of Native culture and history and who ignore the degrading conditions in which many Natives live, are not in a proper

position to pass judgement on Natives.

Because of these failings Morse, like the members of the Canadian Bar's special committee, recom-

mends that Natives be allowed to establish their own justice system and urges judges and police officers to learn more about Native history and culture.



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Combating Illiteracy In Adults

by Joanie Parker

The government of Alberta commits over \$45 million dollars annually to support adult basic education and literacy programs. This announcement was made by Minister of Advanced Education Dave Russell, at mark International Literacy Day, September 8, which was being promoted world-wide by member countries of

The social and economic problems which arise from adult illiteracy continue to be a concern. The Alberta government is coping with the problem by providing adult basic upgrading and literacy programs throughout provincially administered institutions.

Alberta Advanced Education allocated over \$18 million annually to support basic education and literacy programs primarily through Alberta Vocational Centres

(AVC's) located in Edmonton, Calgary, Lac la Biche and the Lesser Slave Lake Region.

Another \$17 million is committed every year through Alberta Career Development for the Alberta Vocational Training Program. This program provides funding support to post-secondary institutions offering adult upgrading to all levels and student support allowances for Albertans taking part in the program. Alberta Education which administers special adult education and upgrading programs also receives \$10 million annually.

Alberta along with British Columbia has the lowest rate of illiteracy in Canada. Presently there are 23,000 Albertans registered in literacy and upgrading programs. Of these 23,000 Albertans it is very

difficult to know how many Native people are enrolled in these programs as AVC's don't keep statistics on a student's racial background or origin.

The Southam News Survey last fall revealed that there are about one million Canadians who cannot read or write and over three million who are functionally illiterate. A functionally illiterate person is defined as someone who has not gone beyond grade nine and who does not have the reading or writing skills to perform tasks demanded of society such as reading

Because we are living in a society dominated by print it is essential to develop reading and writing skills and becoming literate is also essential for the individual to participate in a personally meaningful way in society.

John Paul II Scholarship for Native Studies

by Everett Lambert

Albertans now studying in the field of Native Studies are eligible for the "Pope John Paul II Commemorative Scholarships". The scholarship is also available to those in "international studies with respect to third world countries" as well as those in "ecumenical studies".

The scholarships were established "to commemorate the visit of His Holiness, Pope John Paul II, to Alberta in the fall of 1984..." The scholarships were approved by the Alberta Cabinet and are administered by the Alberta Student Finance Board.

The intent of the scholarships is "to facilitate and promote studies for the well-

being of mankind through the advancement of knowledge and its effective application to contemporary problems."

To be eligible, applicants must be Alberta residents in full-time enrollment at the undergraduate or graduate level. Both the contents of the courses and the performance will be gauged in the selection of recipients.

The awards will be effective in September

1988. The monies will be allotted in disbursements throughout the course of the year. Those selected cannot hold other concurrent Student Finance awards.

Those eligible for the undergraduate scholarship can receive \$5,000.00 while

those eligible for the graduate one can receive \$10,000.00.

The deadline for Master's awards is

February 1st and undergrads have until July 1st to submit their applications.

To inquire further,

students should contact Scholarship Programs, at the Student Finance Board, 10th Floor Baker Center

10025 - 106 St., Edmonton, Alberta. The phone number is 427-8640, or dial "0" and ask for 20043.

Freedom From Bondage A Vision of Hope

by Joanie Parker

Native spirituality plays an important part in the work of one of Canada's top Native artists, Lawrence Beaulieu.

Beaulieu studied art at the University of Manitoba which he says helped him to develop his style although he adds he has also been strongly influenced by other renowned Canadian Native artists such as Jackson Beatty, Daphne Odjig, Carl Ray, Clemince Wescope, Benjamin Chee and Norville Moreso.

Beaulieu goes on to say that most Native artists have a lot of the same feelings but they also have their own individual spirituality and movement. He began painting at the age of seven at which time he was told that the Great Spirit would communicate through his work so that he could give a message to his people and to others.

Spiritual symbolism is a vital part of his painting and he says he often has a vision of what he is to paint ahead of time. For example, his mural **Freedom from Bondage** which can be seen at the AADAC recovery center on 103 Street and 107 Avenue,

in Edmonton embodies the sun which represents the human mind and the four directions. He says, "tells about hope in life."

Many of his paintings portray traditional Native life and are done with acrylics although he also uses water colours and inks.

The uniqueness of his work comes through in a variety of Native themes and designs. For example, the buffalo is common among his paintings for as he points out, "The Buffalo spirit is sacred. It provided food, shelter and clothing for us and if our ancestors hadn't known how to

Much of his work illustrates Native legends and in addition to painting he also writes. He is considering compiling a book on Native art which he plans to call **Images and Themes** Alberta.

He feels Native artists should get more recognition and that Native art should be more alive and have more exposure in Edmonton and Calgary. "I will do everything in my power to promote Native artists in these areas", he says.

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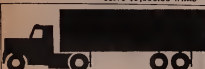
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Recorded History of Natives On

by Joanie Parker

The rich and varied history of the Indian and Metis people of Alberta captured in photographs and books will be on display at the Provincial Archives of Alberta, 12845 - 102 Ave. in Edmonton, until December 4.

This display is the actual observations and writing, such as journal or travel accounts of nine prominent individuals who explored, travelled or worked in

Alberta.

Most of the earliest material is recorded by explorers, fur traders, missionaries and early travellers throughout western Canada.

The display is divided into three sections. The mid 19th-century exploration includes the accounts of John Palliser, Explorer; Peter Erasmus, guide; and Paul Kane, artist.

A section on fur traders and mission-

aries explores the documents of David Thompson, fur trader; Daniel Williams Harmon, fur trader; and Father Lacombe, missionary. Early 20th-

century study includes the accounts of Agnes Deans Cameron, journalist; James William Tyrrell, engineer; and Robert H. Lowie, anthropologist.

On display at the adjoining Provincial Museum is the Fort Chipewyan Bicentennial Exhibit which opened September 23 and will be showing

until March 26. This exhibit complements the historical display of Native writings at the Provincial Archives of Alberta in Edmonton.



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